

## CLAIMS

1. A system for restraining the movement of a vehicle having a wheel with a tire thereon during shipment of the vehicle on a support surface, including:

a chock for engaging one of the front or back circumferential surfaces of the tire;

a strap take-up mechanism adapted to engage the support surface and to be positioned adjacent the other circumferential surface of the tire;

an elongated restraining strap which at one end engages the chock, extends over the tire and engages the tire, and at the other end engages a strap take-up mechanism;

said take-up mechanism including a pair of legs each engaging the support surface and a cylindrical, slotted and rotatable hinge pin mounted to the legs for receiving the take-up end of the strap and about which the strap can be wound upon rotation of the cylinder; and

a handle associated with the hinge pin and legs for rotating the hinge pin so as to wind the strap about the hinge pin and for securing the hinge pin relative to the legs so as to prevent further rotation of the hinge pin.

2. A restraint system as in claim 1 wherein:

each of the plate-like legs includes a plurality of gripping claws along one edge and spaced hinge pin receiving elements along the opposite edge;

said slotted and hinge pin is mounted to said plate and said hinge pin receiving members; and

said handle connected to the hinge pin for rotating the hinge pin and movable between a locking position in engagement with at least one of said legs so as to prevent the handle and the hinge pin from rotating and a rotatable position for strap take-up.

3. A restraint system as in claim 2 wherein each of said hinge-pin receiving elements is cylindrically shaped.

4. A restraint system as in claim 1 wherein said handle is associated with the hinge pin for rotating the pin and movable between a locking position and engagement with at least one of said legs so as to prevent the handle and hinge pin from rotating and an unlocked rotatable position for strap take-up.

5. A restraint system as in claim 1 wherein each of said hinge pin receiving elements is hollow.

6. A restraint system as in claim 1 wherein there is further provided a pair of elongated rods that extend through the hollow hinge pin with handles being mounted to each end of the rods.

7. A restraint system as in claim 1 wherein said chock defines a shaped opening and there is further provided an anchor having a shape substantially similar to said shaped opening so as to pass therethrough, which anchor is secured to one end of the elongated strap.

8. A restraint system as in claim 7 wherein said shaped opening has five sides and said anchor has five sides.

9. A restraint system as in claim 8 wherein said opening and said anchor are each elongated.

10. A restraining system as in claim 1 wherein there is further provided a pair of coiled springs, each mounted to each of said legs, each spring associated with a hinge pin receiving elements, adapted to receive said hinge pin and is positioned to restrain the lateral movement of the pin.

11. A restraining system as in claim 1 wherein said hinge pin defines a pair of opposed strap-receiving slots,

said winding mechanism also including a pair of spaced and elongated rods which extend through the hinge pin and are slidable therein;

said hinge pin being associated with each end of the rods; and

said pin slots and spaced rods being aligned so as to receive the strap and therethrough.

12. A supplemental system for use in restraining movement of a wheeled vehicle positioned on a support surface during shipment of the vehicle and for cooperation with a wheel chock that engaged one of the front or back of a wheel;

said supplemental system including a strap take-up mechanism adapted to engage the support surface and be positioned adjacent the other of the front or back surface of the tire,

an elongated restraining strap which at one end engages said chock, extends over the tire and engages the tire, and at the other end engages the strap take-up mechanism;

said strap take-up mechanism including a pair of legs each engaging the support surface and a rotatable, cylindrical and hollow slotted hinge pin mounted to the legs for receiving the other end of the strap and about which the strap can be wound upon rotation of the cylinder; and

a handle associated with the hinge pin and legs for rotating the cylinder so as to wind the strap about the cylinder and for securing the hinge pin relative to the leg so as to prevent further rotation of the hinge pin.

13. A supplemental restraint system as in claim 12 wherein:

each of the plate-like legs includes a plurality of gripping claws along one edge and spaced hinge pin receiving elements along the opposite edge;

said slotted and cylindrical hinge pin is mounted to said plate and said hinge pin receiving members; and

said handle connected to the hinge pin for rotating the pin and movable between a locking position in engagement with at least one of said legs so as to prevent the handle and the hinge pin from rotating and a rotatable position for strap take-up.

14. A supplemental restraint system as in claim 13 wherein each of said hinge-pin receiving elements is cylindrically shaped.

15. A supplemental restraint system as in claim 12 wherein said handle is associated with the hinge pin for rotating the pin and movable between a locking position and engagement with at least one

of said legs so as to prevent the handle and hinge pin from rotating and an unlocked rotatable position for strap take-up.

16. A supplemental restraint system as in claim 12 wherein each of said hinge pin receiving elements is hollow.

17. A supplemental restraint system as in claim 12 wherein there is further provided a pair of elongated rods that extend through the hollow hinge pin with handles being mounted to each end of the rods.

18. A supplemental restraining system as in claim 12 wherein there is further provided a pair of coiled springs, each mounted to each of said legs, each spring associated with a hinge pin receiving elements, adapted to receive said hinge pin and is positioned to restrain the lateral movement of the pin.

19. A supplemental restraining system as in claim 12 wherein said hinge pin defines a pair of opposed strap-receiving slots,

said winding mechanism also including a pair of spaced and elongated rods which extend through the hinge pin and are slidable therein;

said hinge pin being associated with each end of the rods; and

said pin slots and spaced rods being aligned so as to receive the strap and therethrough.